(August 6, 2001)

Emulsified asphalt shall be grade CMS-2M as specified below. Asphalt temperature at the time of introduction to the pugmill shall be between 54 degrees and 71 degrees C.

CATIONIC EMULSIFIED ASPHALT

MEDIUM SETTING MIXING GRADE

	TYPE	CMS-2M	
Gr <u>ade</u>	WSDOT Test Method	Min.	Max.
Tests on Emulsions:			
Viscosity SF @ 77			
F. (25 C.) sec.	212		
Viscosity SF @ 122			
F. (50 C.) sec.	212	150	450
Storage stability			
test 1 day %	212		1
Demulsibility 35 m.l.			
0.8% sodium dioctyl sulfo-			
sucinate, %	212		
Coating ability &			
water resistance:			
Coating, dry aggregate	212	Good	
Coating, after spraying	212	Fair	
Coating, wet aggregate	212	Fair	
Coating, after spraying	212	Fair	
Particle charge test*	212	Positive	0.40
Sieve test, %	212		0.10
Cement mixing text, %	212		
Distillation:			
Oil distillate by vol.	040	0	40
of emulsions %	212	6	12
Residue, %	212	65	
Tests on residue from			
distillation test:		465	
Penetration, 77F. (25 C.)	201	100	250
Ductility, 77F. (25 C.)	0.4.5	45	
5 cm/min., cm.	213	40	
Solubility in trichloro-	044	07.5	
ethylene, %	214	97.5	

^{*}If the particle charge test in inconclusive, material having a maximum pH value of 6.7 will be acceptable.

1	The estimated emulsified asphalt conte	nt of the mixture for this type of paving is 4.5 to	
2	7.5 percent.		
3			
4	The aggregate shall meet the requirements of the grading specified below:		
5			
6	Sieve Designation	Percent Passing	
7			
8	19 mm square opening	100	
9	12.5 mm square opening	60-80	
10	4.75 mm square opening	0-28	
11	2.00 mm	0-10	
12	0.075 mm	0-2.0	
13	All percentages are by weight		
14			
15	The composite aggregate shall be fi	ree of clay, loam, organic matter, and other	
16	extraneous matter occurring either free or as coating on the particles.		
17			
18	The fracture requirements are at least two fractured faces on 75 percent and at least		
19	one fractured face on 90 percent of the material retained on each sieve, 4.75 mm and		
20	above.		
21			
22	The aggregate shall also meet the follow	ving requirements:	
23			
24	1. Los Angeles Wear, 500 Rev., 3	30 percent max.	
25	Degradation factor - 30 min.	•	
26	· ·		
27	Crushed screenings shall be 4.75 mm to 0 mm in accordance with Section 9-03.4.		
28	G		
29	Acceptance of the aggregate shall be	pased on samples taken from the cold feed for	
30	continuous mix plants and the final mix for all other plants. The plant mixed material wil		
31	be subject to acceptance for asphalt content at the time of mixing.		
32	,	G	
33	Section 9-03.8(3) is supplemented by th	e following:	
34	, , , , ,	G	
35	A minimum of fifty percent of the a	ggregate shall be in stockpile prior to the mixing	
36	operation, unless otherwise permitted by the Engineer.		
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